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JCS30 U.S. PTO



12/07/99

# UTILITY PATENT APPLICATION TRANSMITTAL

Only for new nonprovisional applications under 37 C.F.R. § 1.53(b)

Attorney Docket No.

First Inventor or Application Identifier

U9900183

Title

DRAWER-SOMMER

Express Mail Label No.

JCS30 U.S. PTO

09/05/18

12/07/99

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

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1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 7]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 9]
4. Oath or Declaration [Total Pages 2]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
    - i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement of Power of Attorney (when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 [Copies of IDS Citations]
11. ☐ Preliminary Amendment
12. ☐ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☒ \* Small Entity Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)
14. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
15. ☒ Other: Translation of Priority Document

\* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

## 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_  
 Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

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Name: JUAN JOSE GAVEKA VAZQUEZ  
 Address: CTRA. ZAMANS, 190  
 City: VIGO State: Zip Code: 36310  
 Country: SPAIN Telephone: 986469781 Fax: 986469781

Name (Print/Type): JUAN JOSE GAVEKA VAZQUEZ Registration No. (Attorney/Agent)  
 Signature: [Signature] Date: 12/03/1999

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**STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(b))—INDEPENDENT INVENTOR**

Docket Number (Optional)

Applicant, Patentee, or Identifier: JUAN JOSE GAVELA VAZQUEZ

Application or Patent No.: U9900183

Filed or Issued: JANUARY 18 1999

Title: DRAWER—SOMMIER

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☐ the specification filed herewith with title as listed above.  
☒ the application identified above.  
☐ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☐ No such person, concern, or organization exists.  
☐ Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

NAME OF INVENTOR  
JUAN JOSE  
GAVELA VAZQUEZ

NAME OF INVENTOR

NAME OF INVENTOR

Signature of inventor

Signature of inventor

Signature of inventor

Date

Date

Date

DECEMBER 03/1999

NAME: Juan José Gavela Vazquez

CITIZENSHIP: Spanish

5 RESIDENCE: Ctra. Zamans, 190  
36310 Vigo (Pontevedra)  
Spain.

10 TITLE OF INVENTION: Drawer-sommier.

15 CROSS-REFERENCE TO RELATED APPLICATIONS

U 99 00 183 01/18/1999 same application

20

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH  
OR DEVELOPMENT

25 Not applicable.

30 REFERENCE TO A MICROFICHE APPENDIX

Not applicable.

35

BACKGROUND OF THE INVENTION

40 The former technique refers to a metal grill fixed to a  
framework also metallic used to hold the mattress.  
Nowadays a small-boards grill yielding with the weight is used  
fixed to a framework usually made of iron. Iron bars are used  
just underneath the timber grill to give it firmness.

Lately synthetic materials are used but always keeping the same structure, whose aim is to hold the mattress.

A Day bed has not small-board grill, its framework is usually covered with cloth and its base is usually near the floor.

5 Recently an iron framework covered with cloth, in the shape of a box to hold the mattress is being used.

10

## BRIEF SUMMARY OF THE INVENTION

15 Complete compact structure composed of a external wooden framework (1) assembled to corner pieces (6) and a closed bottom (4) in the shape of a rectangular box. Its inside consists of a horizontal small-board grill (2) resting upon wooden crossbars (3) which are linked to both opposite sides of the framework. The inside cavity between the bottom and the small-board grill provides an air chamber (5) when it receives  
20 the mattress.

Because of the air chamber it provides isolation. Because of the inner wooden crossbars it provides firmness for the mattress without making use of iron, with the iron bars.

25 Opposite pieces of the framework are alike. Corner pieces are all the same as well as the wooden crossbars and the small-boards too, that gives a whole uniform set.

30 The object of the invention is to supply for the human been a more convenient set to rest and sleep commensurate with wooden industry.

## 35 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

Fig. no. 1: Perspective view of the Drawer-sommier made of rounded corners for embedded mattress with independent small boards.

40 Fig. no. 2: Perspective view of; (a) rectangular Drawer-sommier for embedded mattress and independent small-boards; (b) rectangular Drawer-sommier for mattress on the surface with fixed small-board grill.

Fig. no. 3: (a) perspective view of the Drawer-sommier with legs for embedded mattress and detail of independent small-boards; (b) perspective view of the Drawer-sommier with legs for embedded mattress and detail of independent small-board grill.

Fig. no. 4: Cross section of the Drawer-sommier for embedded mattress; (a) independent small boards; (b) fixed small-board grill; (c) independent small-board grill.

Fig. no. 5: Cross section of the Drawer-sommier for mattress on the surface; (d) fixed small-board grill; (e) independent small-board grill.

Fig. no. 6: (a) Type of the Drawer-sommier; (b) side view; (c) usage; (d) side view of the small-board grill and independent small-board (9); (e) side view of the small-board grill and added independent small-board (7).

Fig. no. 7: Cross sectional anchorage disposition; anchorage dispositive (left- hand side, back of the bed; right-hand side, Drawer-sommier).

Fig. no. 8: Way of assembly; (a) corner piece of embedded framework; (b) embedding; (c) cross sectional embedding.

Fig. no. 9: Example of industrial usage.

#### DETAILED DESCRIPTION OF THE INVENTION

The Drawer-sommier is something more than mere support for the mattress. It has evolved from a plane form without volume (like a metal box sommier or a combination of small boards and an iron framework) to another form with volume in the shape of a drawer, in which it appears an inside cavity with a closed bottom (4) and some elongated stabilizing wooden crossbars (3) which subdivide the cavity into two or more air chambers (5) according to the width required. In case of need some small holes made at the bottom of the cavity ensure the transpiration of the body.

The assembly of the several parts which compose the Drawer-

sommier is made according to the technique used for carpentry industry.

The variability of the several measurements for its manufacture is a characteristic of the Drawer-sommier according to the demand of the market. These can be so small that they can be adapted to a cradle.

Diversity of the invention:

- 10 a) Rectangular shape to be fixed to a front and back.
- b) Rounded corners at an extreme side to be used with legs or others.
- 15 1. Mattress on the surface.
  - 1.1 Independent small-board grill.
  - 1.2 Fixed small-board grill.
- 20 2. Embedded mattress.
  - 2.1 Independent small-board grill.
  - 2.2 Fixed small-board grill.
  - 2.3 Independent small boards embedded in
  - 25 framework.

The rigidity of the whole supplies a straight position without curves to the human body when resting due to the stabilizing wooden crossbars which keep the small-boards grill (2) firm. Iron is conductor of electricity, electromagnetic and sound waves as well as a thermal conductor and it would go against the principal characteristic of the invention, which is isolation. On the contrary, wood in its natural state is isolating.

The own versatility of the Drawer-sommier somehow allows its personalization, since the user can, if appropriate for resting or health, to replace some of the independent small-boards with other thicker ones added (7) in order to raise some part of his body and, thus, achieve the best position.

No fabric covering the Drawer-sommier is necessary when it is commercially presented because it is already aesthetic. No purchasing of a box sommier is necessary to complete the bed.

The confort added to the body by its air chamber makes the purchase of a special mattress unnecessary, thus reducing the cost of the whole set.

5

The wooden framework (1) is the essencial part of its structure and aesthetics. Its assembly will be made by fitting the parts of the framework together and the corner pieces (6) will be inlayed and glued in place; this cannot be dismantled. However, they can also be put together with a reinforcement corner in wood or metal; then it can be dismantled.

10

The wooden crossbars (3) hold the weight and are assembled to the framework and fixed to it by an inside reinforcement angle of wood or metal.

15

The small-board grill (2) is made of independent small boards (9) which rest upon the wooden crossbars (3) Their length and their small thickness allows for these to be made rounded slightly upwards, being introduced in side holes. These are fixed downwards forming the firm support of the mattress. The bottom (4) is made of timber board and it is fixed to the framework by a rebatting, glued and/or screwed, which would reinforce the solidity of the whole.

20

25

The drawer-sommier can be manufactured in mass production in a standard way due to its all-uniform pieces, which aims at a normalized fabrication (just like metallic sommiers are made at independent factories).

30

It would become an essencial tool for the industrial carpentry manufacturers or the craftsmen, regarding bed making, it would minimizes a lot of work and time, reducing costs (see the Diversity of the invention and Exemple of industrial usage, fig. no. 9). It can be fitted to bed-backs with an anchorage dispositive(8), its aproximation is carryed out without external perception.

35

## CLAIM

What I claim as my invention is

5 1. The Drawer-sommier whose outline consists of a rectangular wooden framework (1) in the shape of a drawer and a small-board grill (2) used to support the mattress. The mattress can lie on the framework or be slightly embedded according to the diversity of the invention

10 It is characterized: by the incorporation of inner wooden crossbars (3) linked to both opposite sides of the framework, their height starts at the bottom and ends at the small-boards grill giving it support and firmness

15 Also, by incorporating a closed bottom (4) of timber board which is jointed to the crossbars and the framework by its lower part; this produces an air chamber (5) between the closed bottom and the mattress

20 By the incorporation, besides, of corner inlayed pieces (6) which are assembled in the framework

25 By the incorporation, moreover, of independent added small boards (7) (thicker than the normal ones and tooth form shaped to keep the flexibility) in order to replace them if necessary

30 And by the incorporation, furthermore, of an anchorage dispositive (8) composed of two screws welded to an iron plate in order to fix a bed-back to the Drawer-sommier.



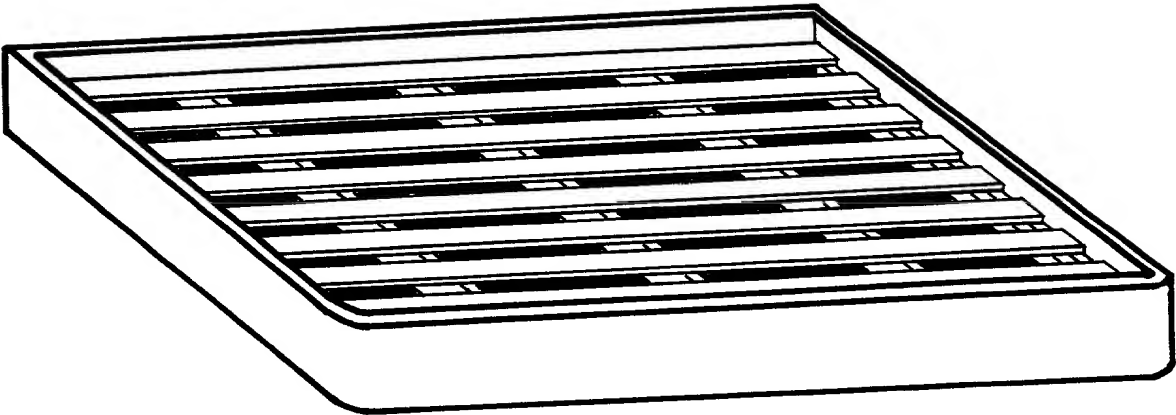
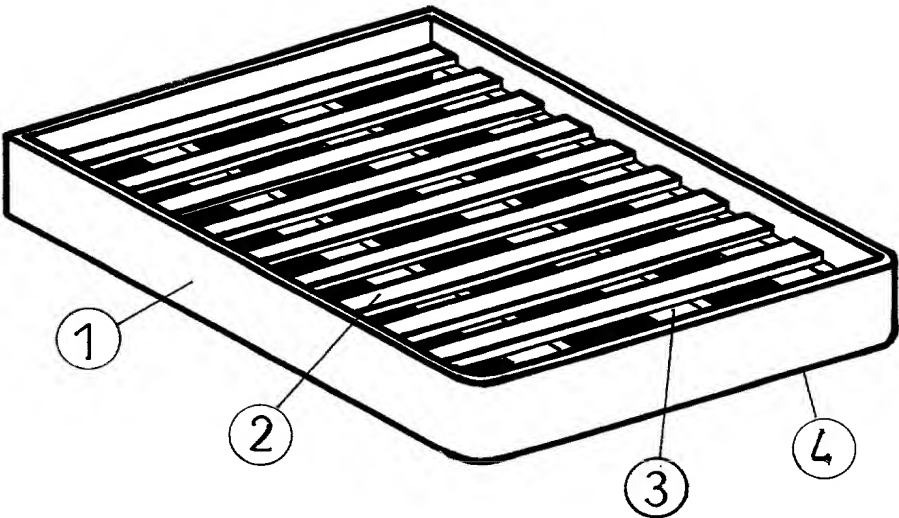
## ABSTRACT OF THE DISCLOSURE

5 The Drawer-sommier is another way of making a bed with regard to the former technique, using wood without making use of iron to achieve the traditional small-board grill (2) sommier firmness, and using wooden crossbars (3) sufficiently high to hold the weight of the persons.

10 This allows for the framework (1) to be closed with a timber board at the bottom that provides an air chamber (5) between the closed bottom (4) and the mattress.

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fig. 1



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fig. 2

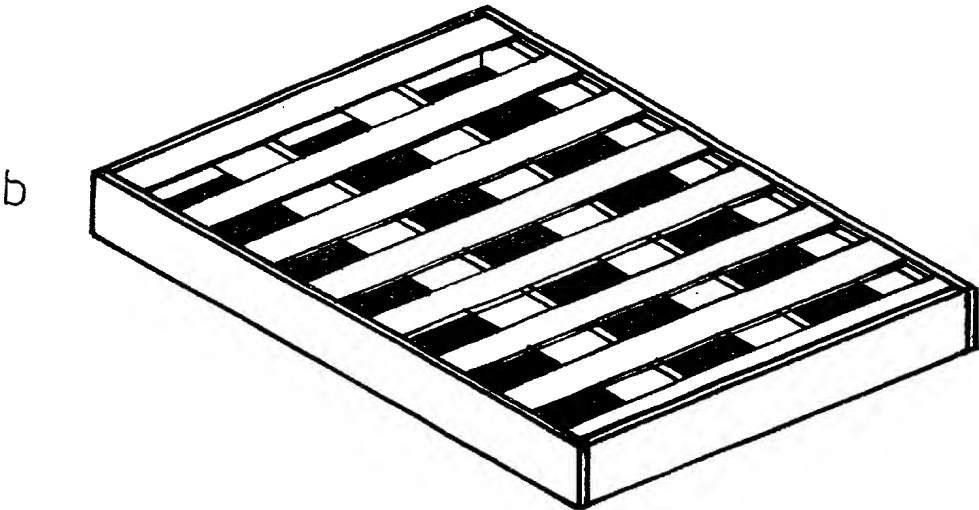
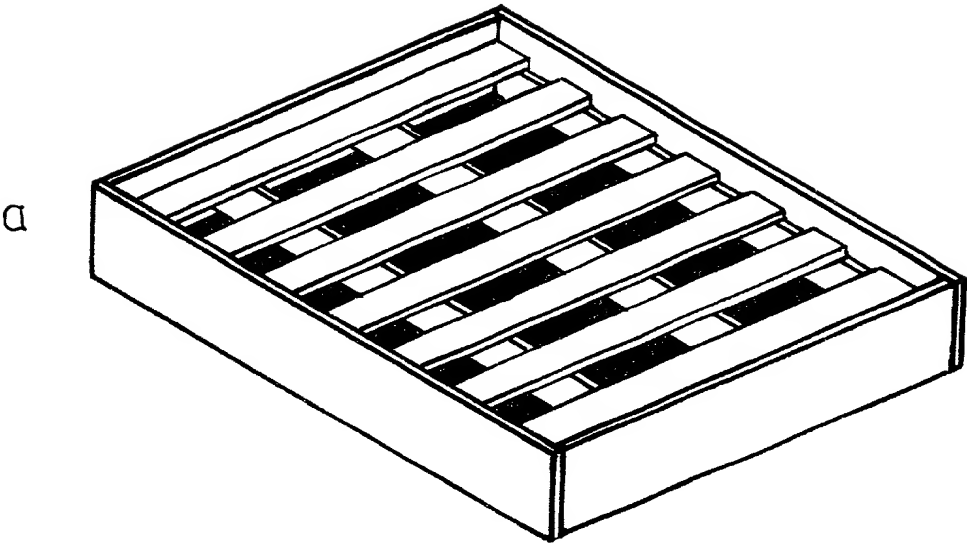
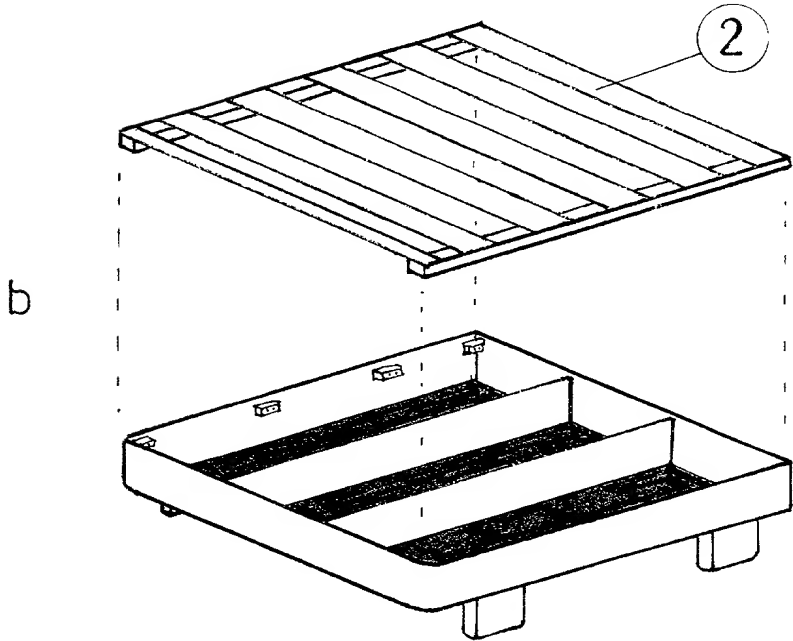
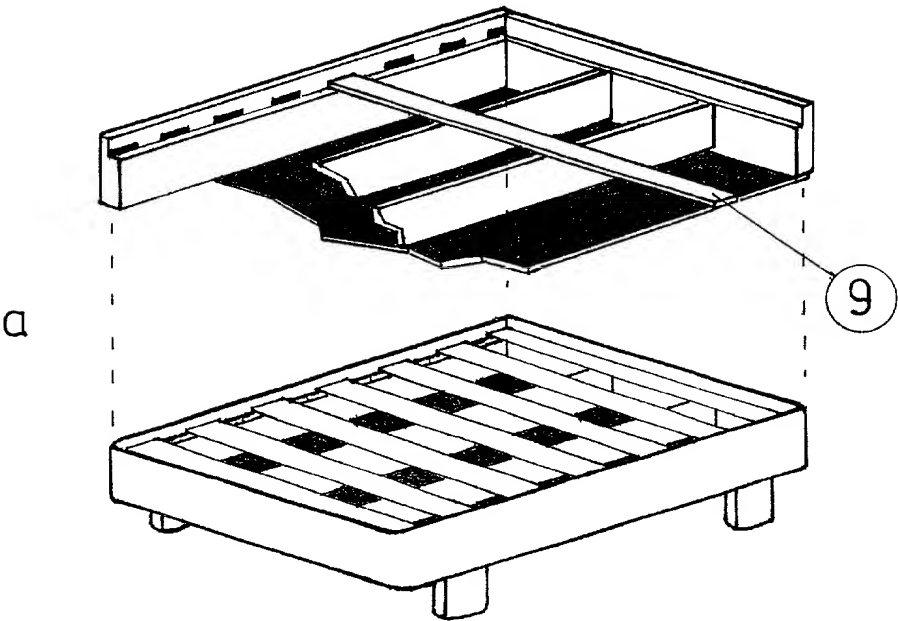


fig.3



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fig.4

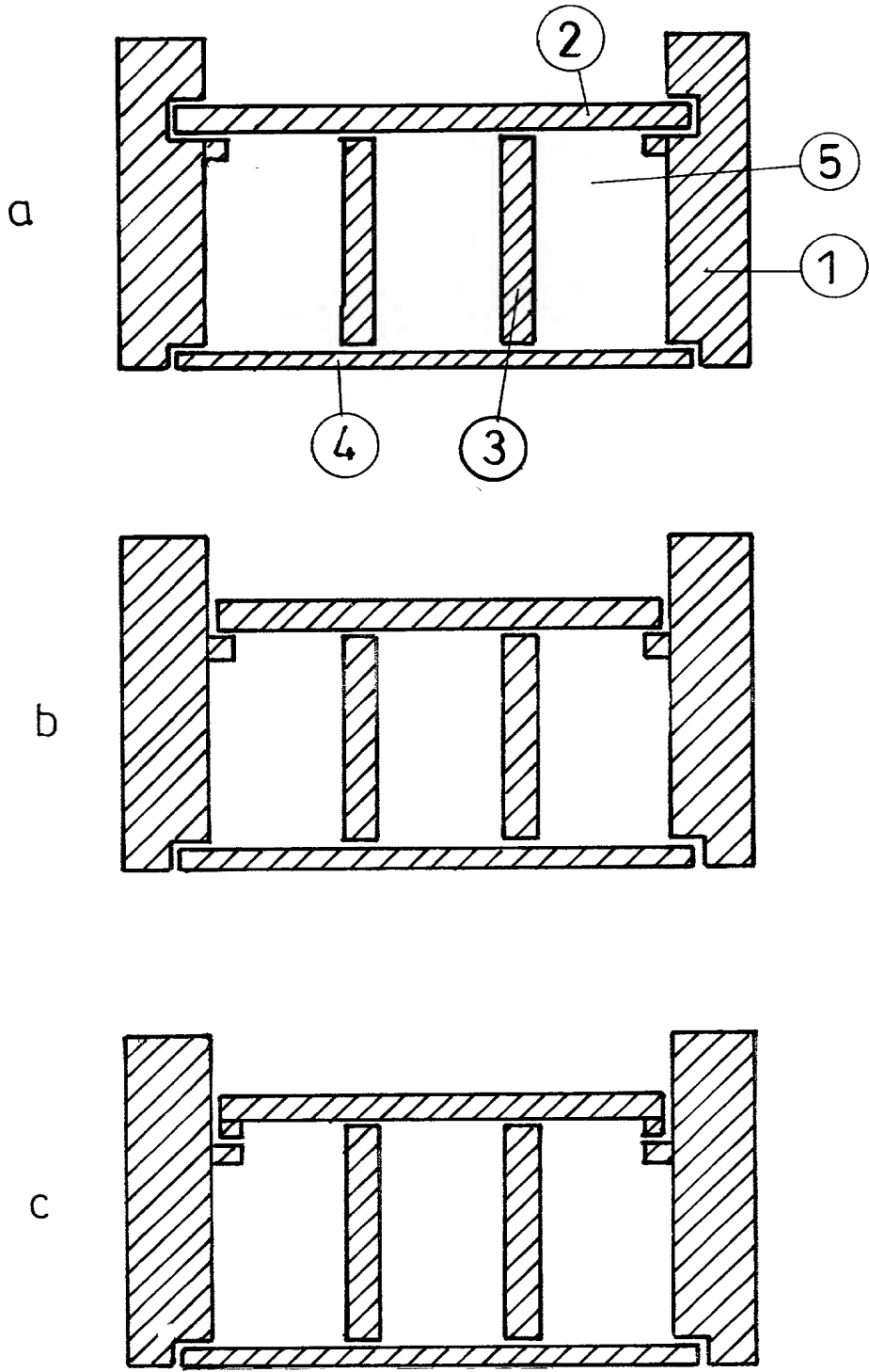
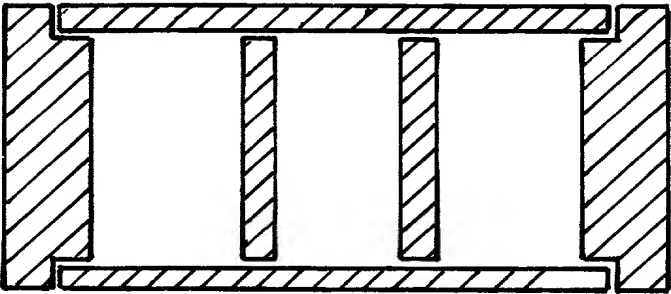


fig.5

d



e

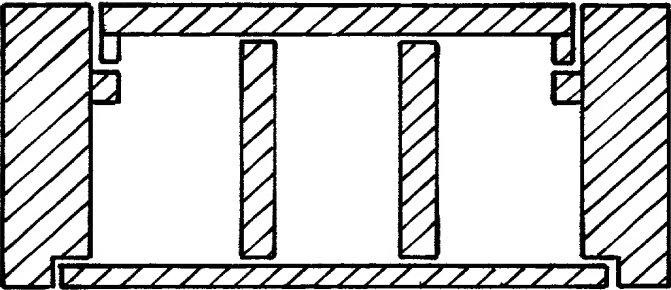
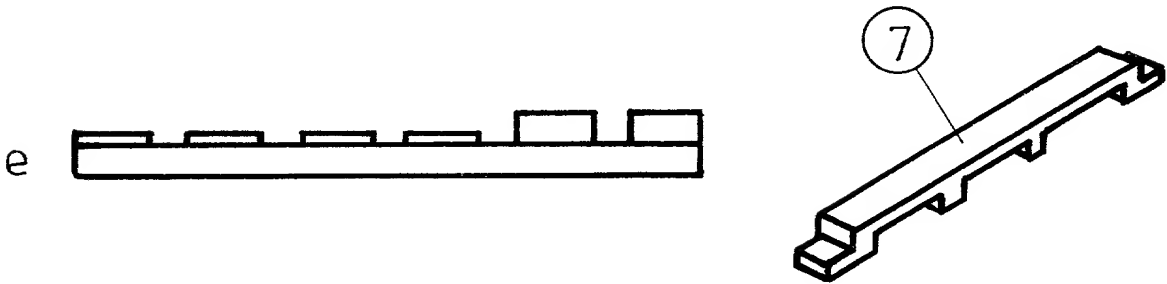
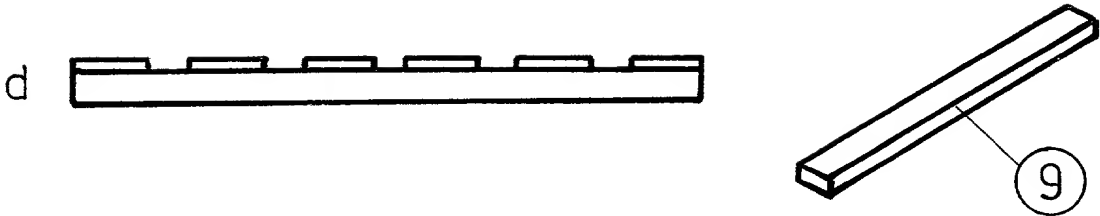


fig.6

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fig. 7

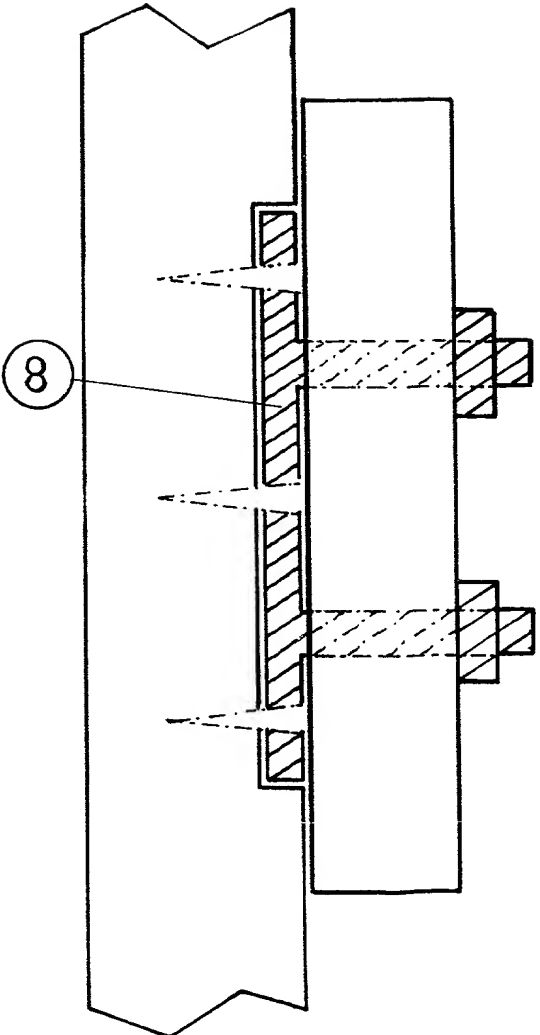




fig.8

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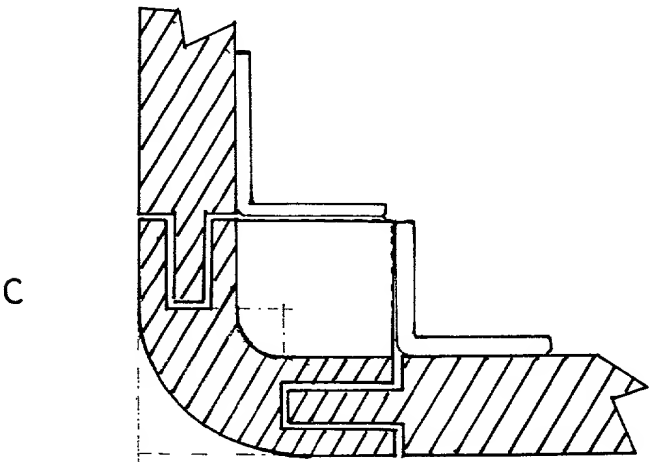
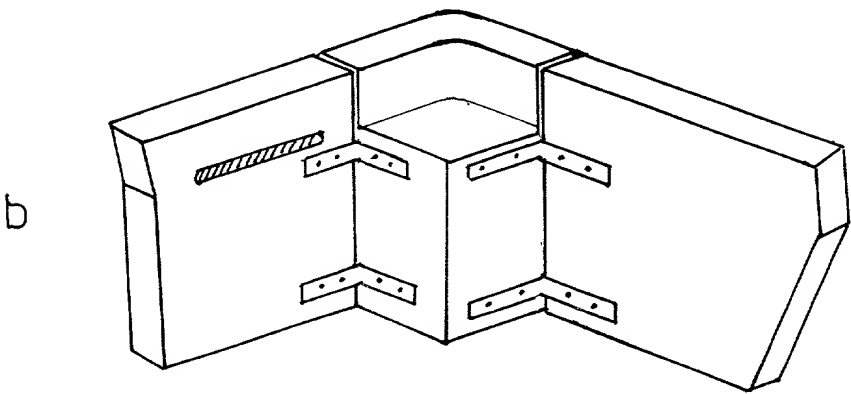
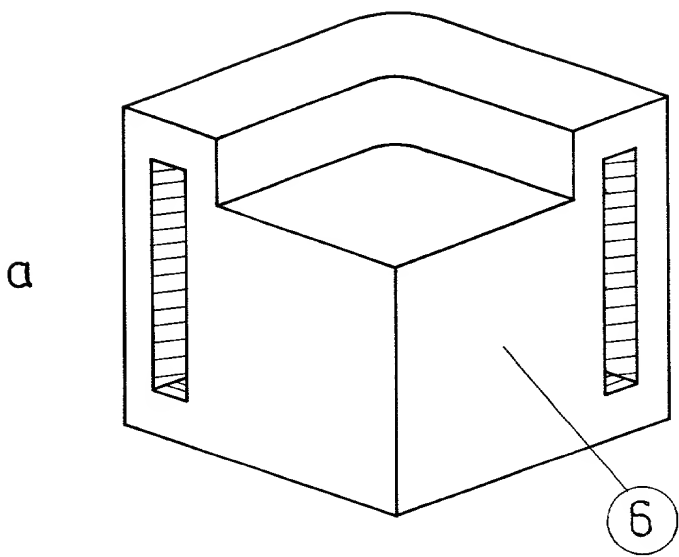
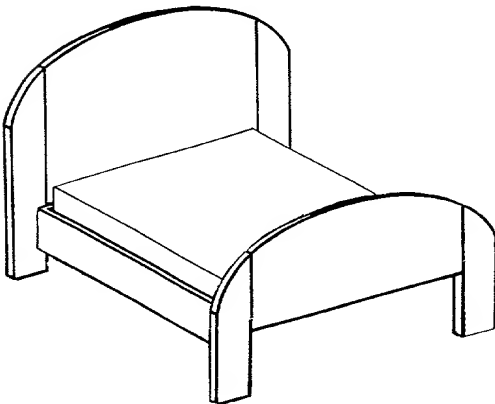
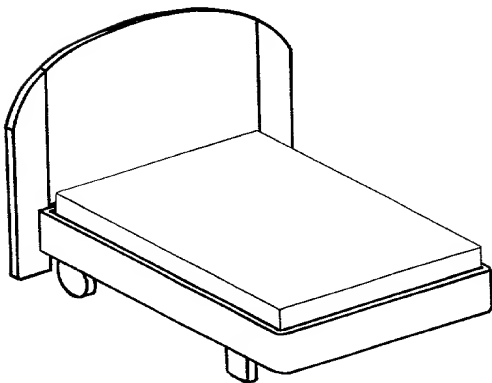
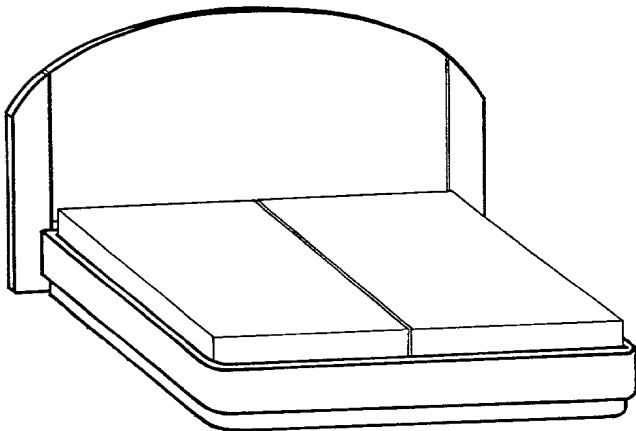
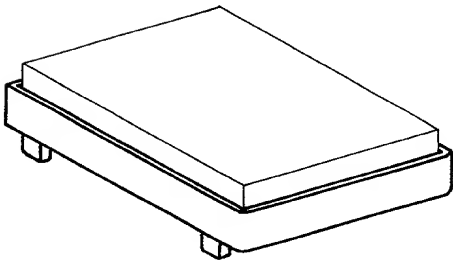
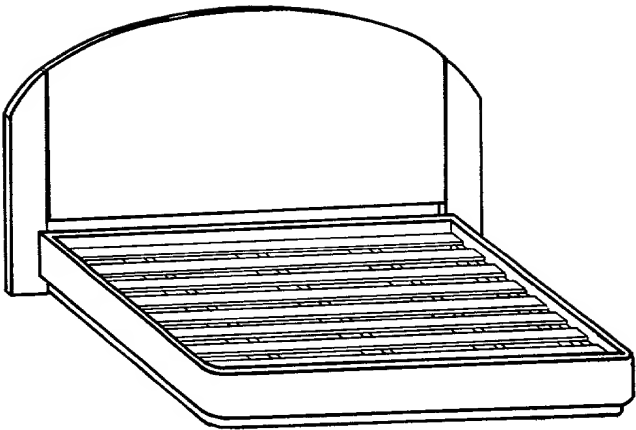
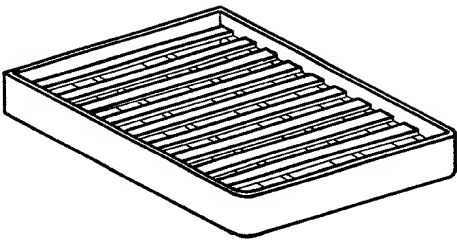


fig. 9



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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>  <input type="checkbox"/> Declaration Submitted with Initial Filing      OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	<b>Attorney Docket Number</b>	
	<b>First Named Inventor</b>	
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	/
	<b>Filing Date</b>	
	<b>Group Art Unit</b>	
	<b>Examiner Name</b>	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DRAWER-SOMMIER

the specification of which

(Title of the Invention)

☐ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
U9900183	SPAIN	01/18/1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

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[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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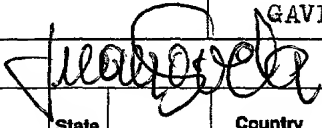
OR ☐ Correspondence address below

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Address	CTRA. ZAMANS, 190				
Address	ZAMANS				
City	VIGO	State		ZIP	36310
Country	SPAIN	Telephone	986469781	Fax	986469781

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
JUAN JOSE		GAVELA VAZQUEZ	
Inventor's Signature			Date 12/03/99
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